

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071422\
 Data File : VX030061.D
 Acq On : 14 Jul 2022 15:09
 Operator : JC/MD
 Sample : N3718-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 220713036-03-VOA

Quant Time: Jul 15 04:42:04 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X070822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jul 09 02:10:54 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

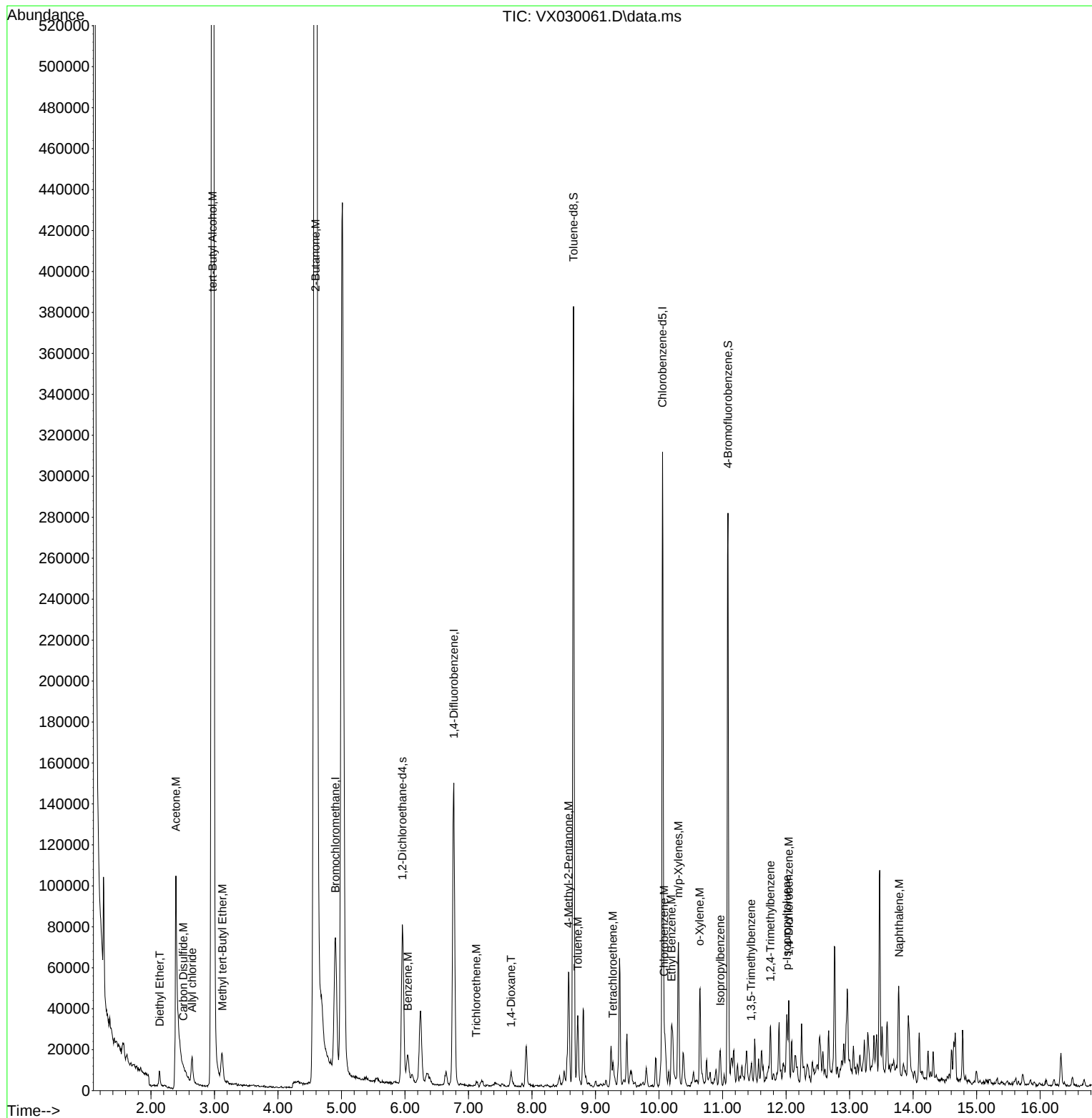
Internal Standards						
1) Bromochloromethane	4.904	128	28115	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	156179	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	137210	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	67842	29.592	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.633%
60) 4-Bromofluorobenzene	11.085	95	74368	28.760	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.867%
63) Toluene-d8	8.653	98	221197	29.730	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.100%
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.136	74	2239	1.828	ug/l	68
15) Acetone	2.392	58	79631	211.242	ug/l #	1
16) Carbon Disulfide	2.508	76	1423	0.275	ug/l #	79
17) Allyl chloride	2.648	41	13007	3.728	ug/l #	38
23) tert-Butyl Alcohol	2.971	59	1882622	2961.249	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	13633	2.134	ug/l #	80
30) 2-Butanone	4.593	43	64128	35.561	ug/l #	79
34) Benzene	6.044	78	17611	2.051	ug/l	96
37) Trichloroethene	7.123	130	539	0.235	ug/l	98
45) 1,4-Dioxane	7.671	88	4944	81.613	ug/l #	86
58) 4-Methyl-2-Pentanone	8.574	43	38554	11.376	ug/l #	92
61) Tetrachloroethene	9.275	164	2008	0.975	ug/l	88
62) Toluene	8.720	91	16574	1.816	ug/l	95
64) Chlorobenzene	10.080	112	6819	1.251	ug/l	100
66) Ethyl Benzene	10.195	91	16107	1.661	ug/l	94
67) m/p-Xylenes	10.305	106	16368	4.349	ug/l	93
68) o-Xylene	10.640	106	11180	2.983	ug/l	96
70) Isopropylbenzene	10.964	105	6247	0.662	ug/l	92
76) 1,3,5-Trimethylbenzene	11.451	105	3690	0.466	ug/l	93
80) 1,2,4-Trimethylbenzene	11.756	105	11547	1.418	ug/l	97
82) p-Isopropyltoluene	12.012	119	4073	0.485	ug/l	89
84) 1,4-Dichlorobenzene	12.043	146	12317	2.774	ug/l	98
91) Naphthalene	13.780	128	11870	1.113	ug/l	97

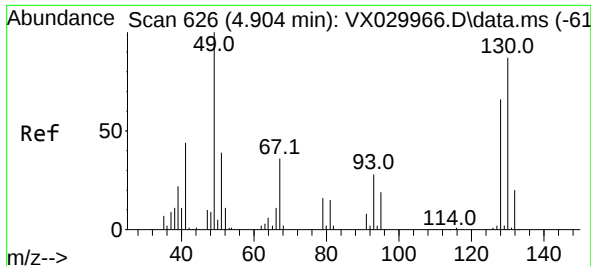
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 15 04:42:04 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X070822W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Jul 09 02:10:54 2022
Response via : Initial Calibration

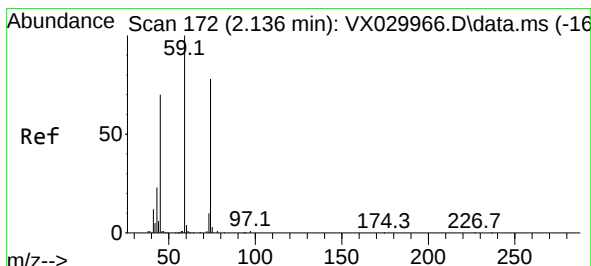
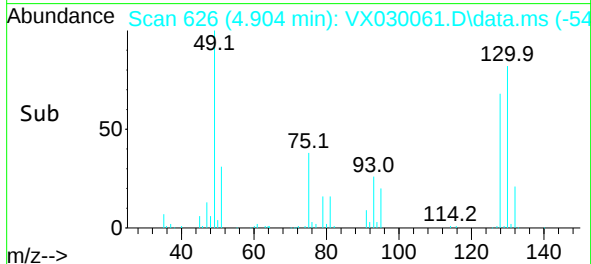
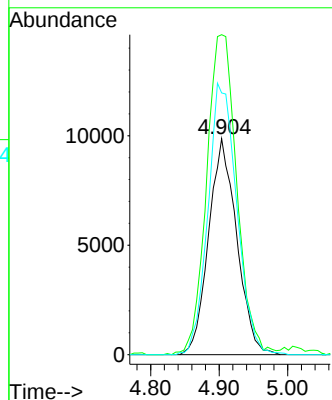
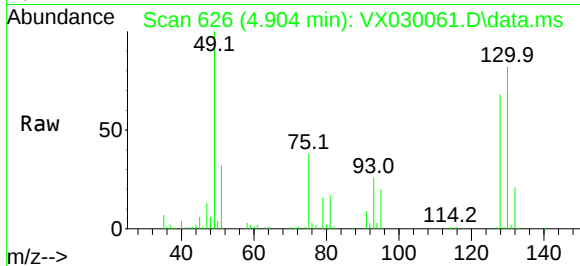




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX030061.D
Acq: 14 Jul 2022 15:09

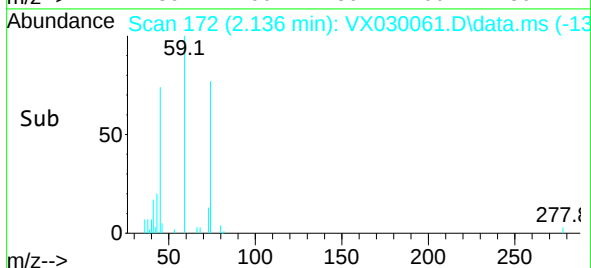
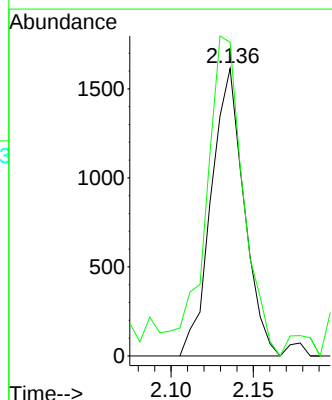
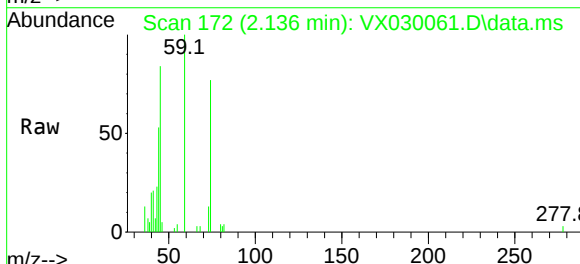
Instrument :
MSVOA_X
ClientSampleId :
220713036-03-VOA

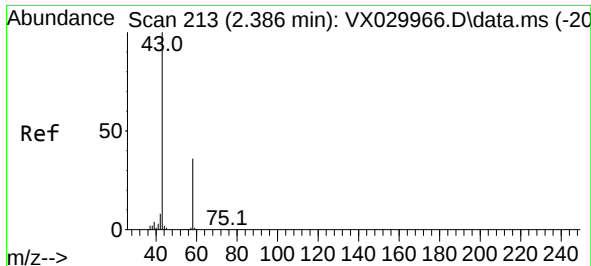
Tgt Ion:128 Resp: 28115
Ion Ratio Lower Upper
128 100
49 158.1 0.0 358.3
130 129.2 0.0 319.3



#8
Diethyl Ether
Concen: 1.828 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX030061.D
Acq: 14 Jul 2022 15:09

Tgt Ion: 74 Resp: 2239
Ion Ratio Lower Upper
74 100
45 124.9 18.7 168.7

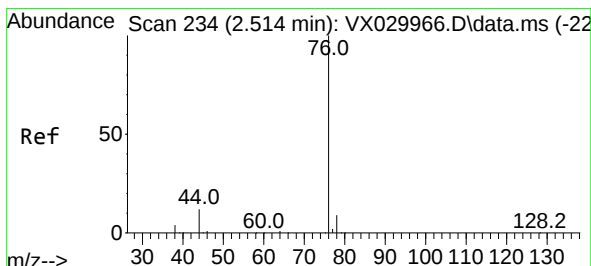
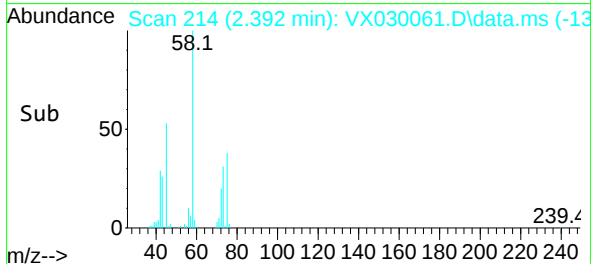
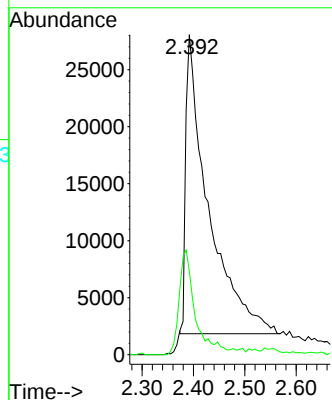
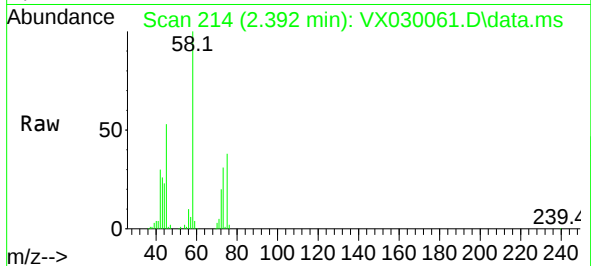




#15
Acetone
Concen: 211.242 ug/l
RT: 2.392 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX030061.D
Acq: 14 Jul 2022 15:09

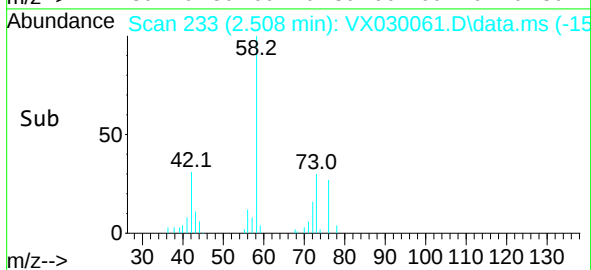
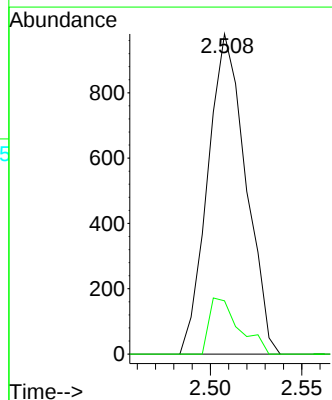
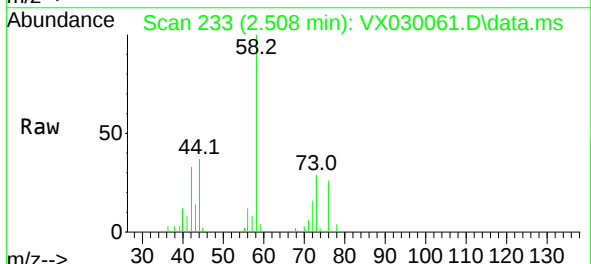
Instrument :
MSVOA_X
ClientSampleId :
220713036-03-VOA

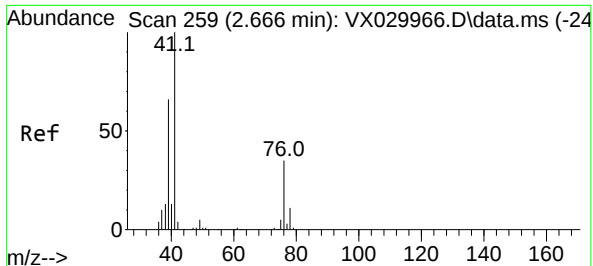
Tgt Ion: 58 Resp: 79631
Ion Ratio Lower Upper
58 100
43 27.1 250.2 375.2#



#16
Carbon Disulfide
Concen: 0.275 ug/l
RT: 2.508 min Scan# 233
Delta R.T. -0.006 min
Lab File: VX030061.D
Acq: 14 Jul 2022 15:09

Tgt Ion: 76 Resp: 1423
Ion Ratio Lower Upper
76 100
78 16.6 7.1 10.7#





#17

Allyl chloride

Concen: 3.728 ug/l

RT: 2.648 min Scan# 21

Delta R.T. -0.018 min

Lab File: VX030061.D

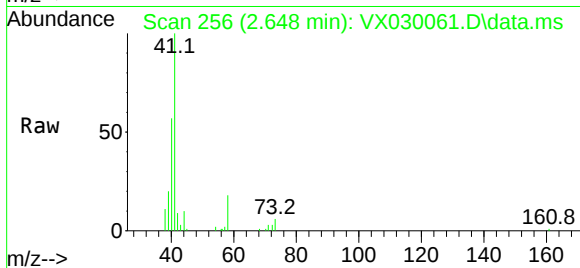
Acq: 14 Jul 2022 15:09

Instrument :

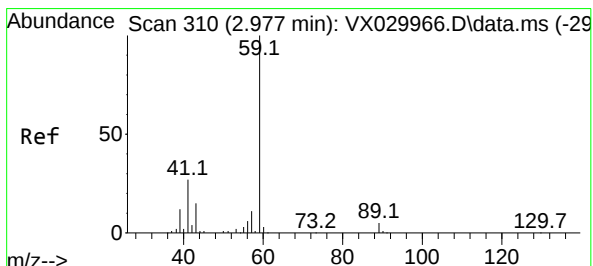
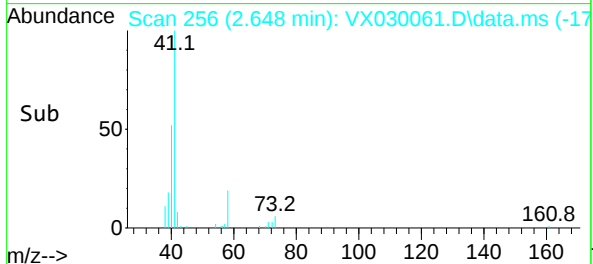
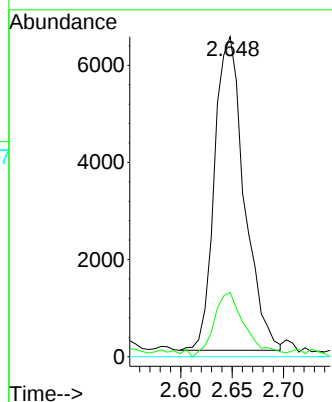
MSVOA_X

ClientSampleId :

220713036-03-VOA



Tgt Ion: 41	Resp: 13007
Ion Ratio	Lower Upper
41	100
39	19.5 35.4 106.1#
76	0.0 18.4 55.4#



#23

tert-Butyl Alcohol

Concen: 2961.249 ug/l

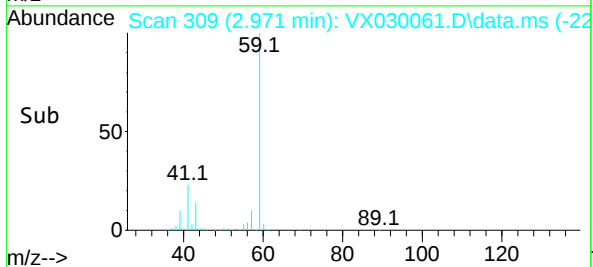
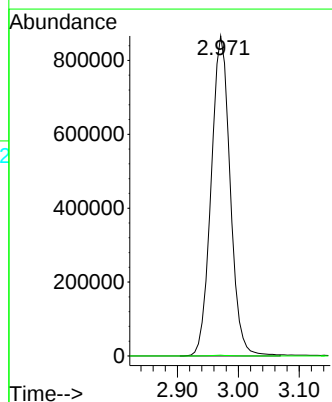
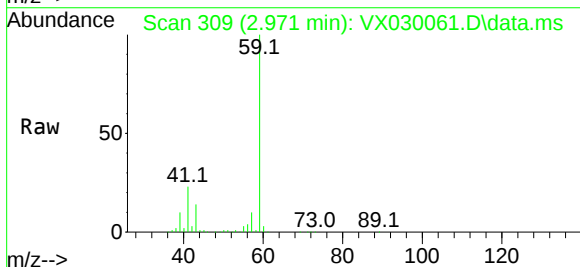
RT: 2.971 min Scan# 309

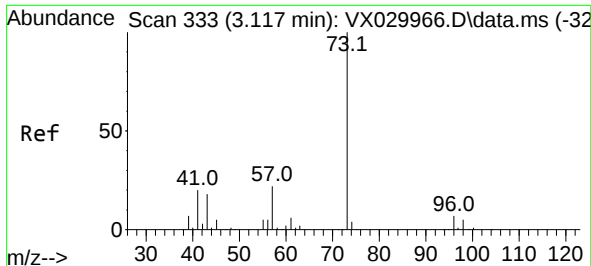
Delta R.T. -0.006 min

Lab File: VX030061.D

Acq: 14 Jul 2022 15:09

Tgt Ion: 59	Resp: 1882622
Ion Ratio	Lower Upper
59	100
52	0.2 0.0 0.0#

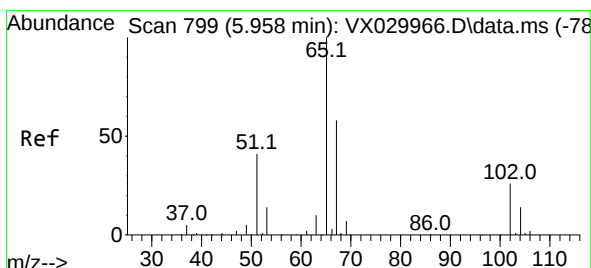
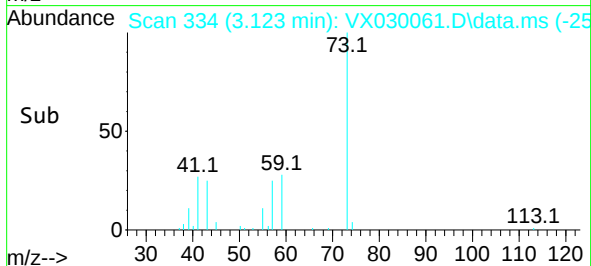
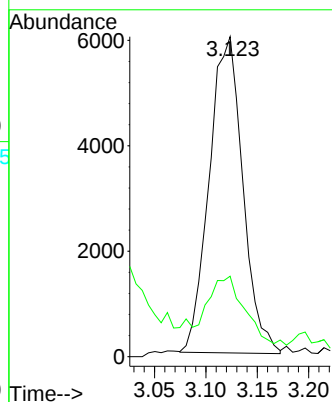
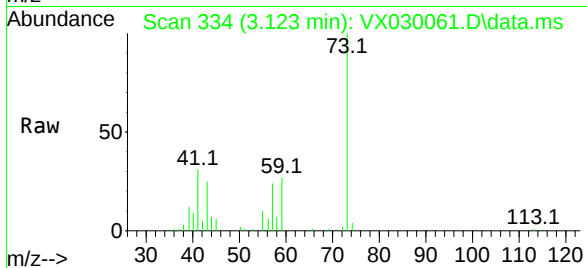




#24
Methyl tert-Butyl Ether
Concen: 2.134 ug/l
RT: 3.123 min Scan# 311
Delta R.T. 0.006 min
Lab File: VX030061.D
Acq: 14 Jul 2022 15:09

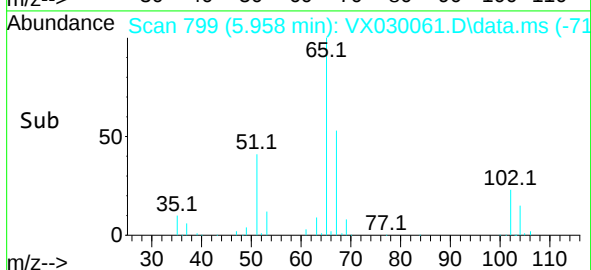
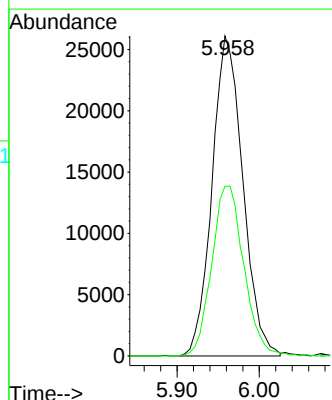
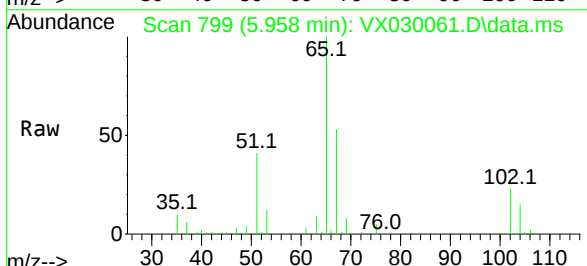
Instrument :
MSVOA_X
ClientSampleId :
220713036-03-VOA

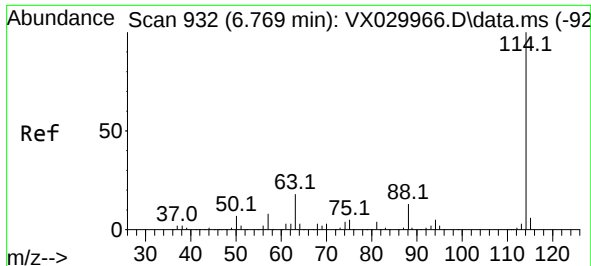
Tgt Ion: 73 Resp: 13633
Ion Ratio Lower Upper
73 100
43 29.2 16.0 24.0#



#27
1,2-Dichloroethane-d4
Concen: 29.592 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.000 min
Lab File: VX030061.D
Acq: 14 Jul 2022 15:09

Tgt Ion: 65 Resp: 67842
Ion Ratio Lower Upper
65 100
67 55.3 42.3 63.5

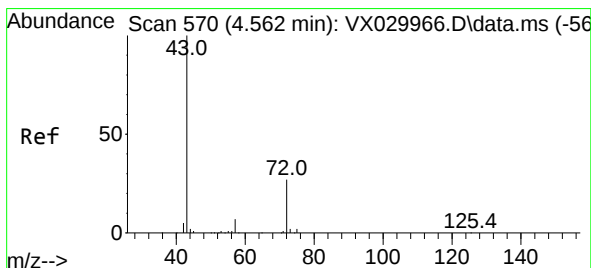
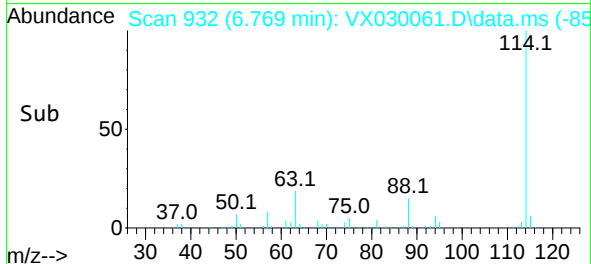
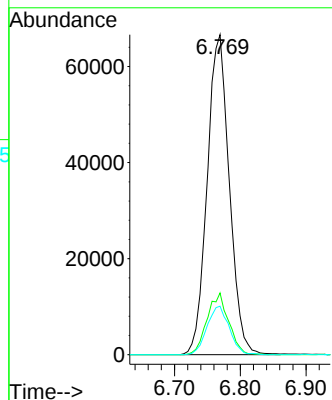
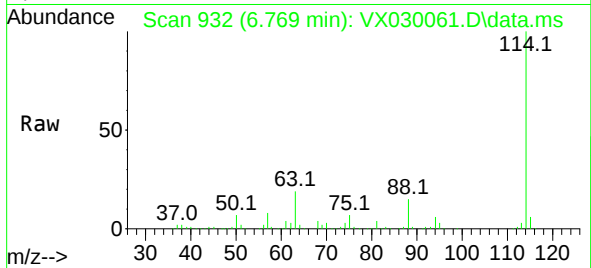




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.769 min Scan# 91
 Delta R.T. 0.000 min
 Lab File: VX030061.D
 Acq: 14 Jul 2022 15:09

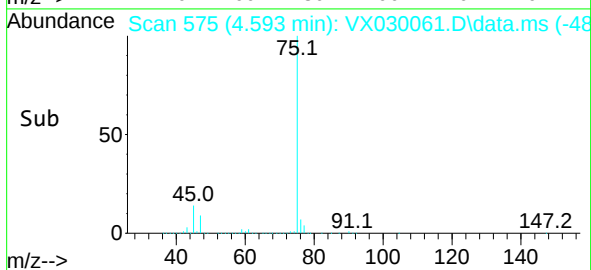
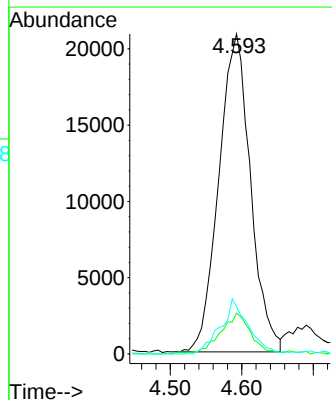
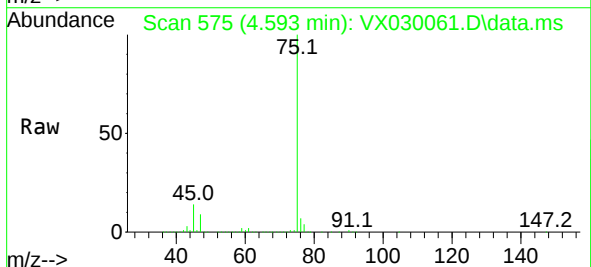
Instrument :
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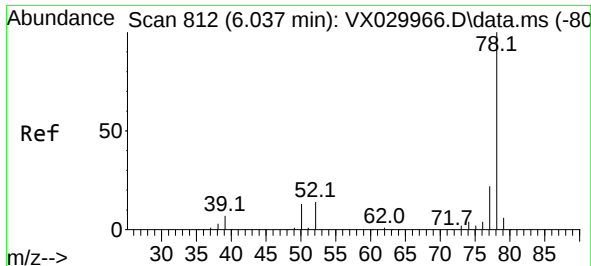
Tgt Ion:114 Resp: 156179
 Ion Ratio Lower Upper
 114 100
 63 18.8 15.3 22.9
 88 15.2 12.2 18.4



#30
 2-Butanone
 Concen: 35.561 ug/l
 RT: 4.593 min Scan# 575
 Delta R.T. 0.031 min
 Lab File: VX030061.D
 Acq: 14 Jul 2022 15:09

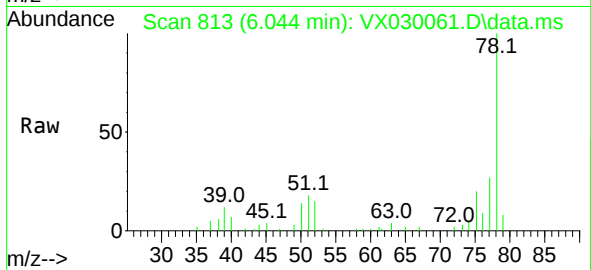
Tgt Ion: 43 Resp: 64128
 Ion Ratio Lower Upper
 43 100
 57 12.2 6.6 10.0#
 72 15.0 22.1 33.1#



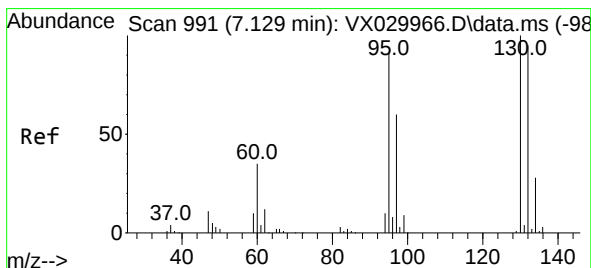
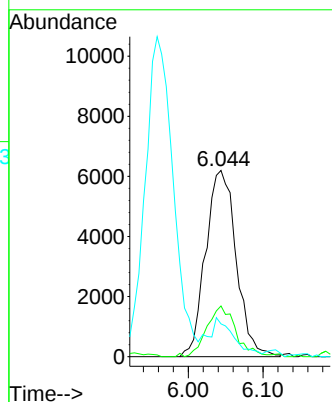
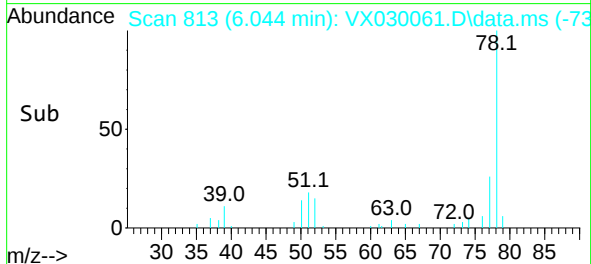


#34
Benzene
Concen: 2.051 ug/l
RT: 6.044 min Scan# 81
Delta R.T. 0.006 min
Lab File: VX030061.D
Acq: 14 Jul 2022 15:09

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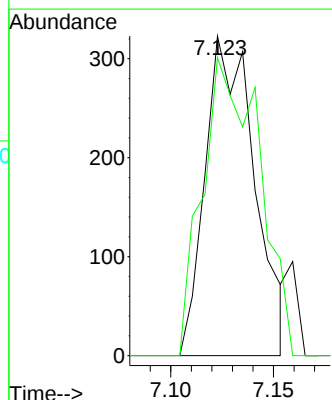
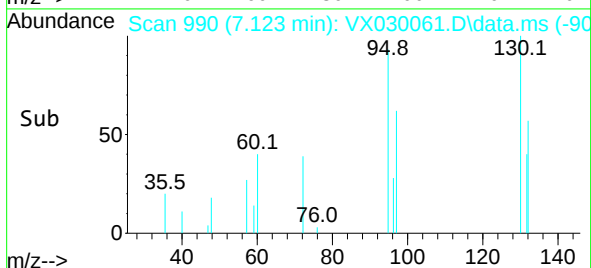
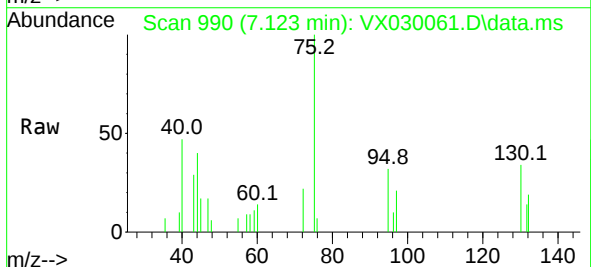


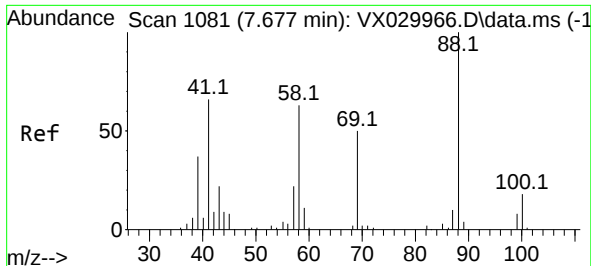
Tgt Ion: 78 Resp: 17611
Ion Ratio Lower Upper
78 100
77 25.8 18.5 27.7
51 15.7 12.9 19.3



#37
Trichloroethene
Concen: 0.235 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.006 min
Lab File: VX030061.D
Acq: 14 Jul 2022 15:09

Tgt Ion:130 Resp: 539
Ion Ratio Lower Upper
130 100
95 93.2 76.5 114.7

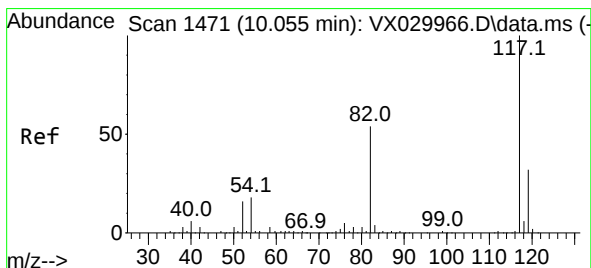
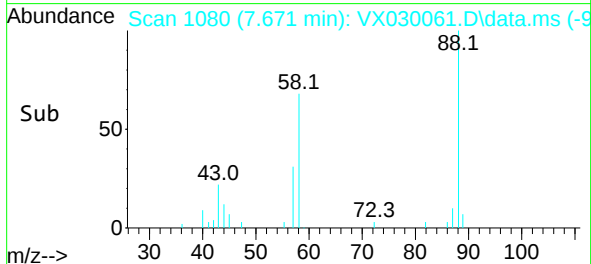
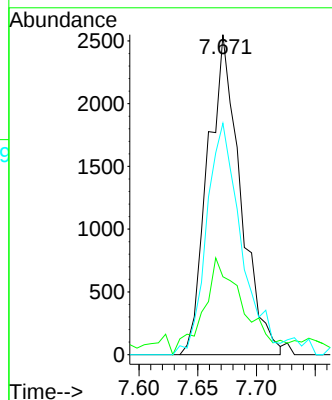
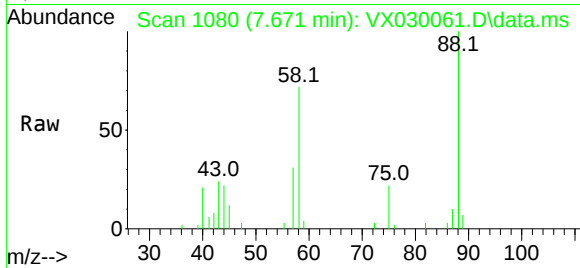




#45
1,4-Dioxane
Concen: 81.613 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX030061.D
Acq: 14 Jul 2022 15:09

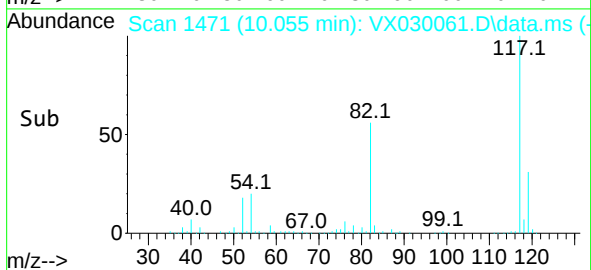
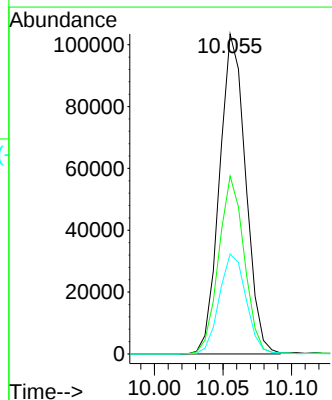
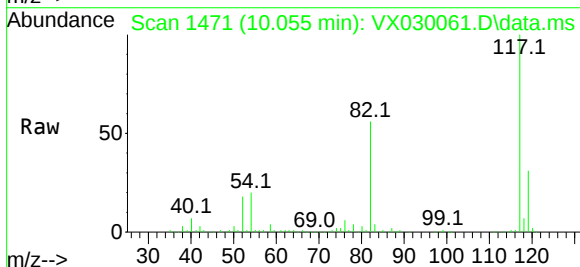
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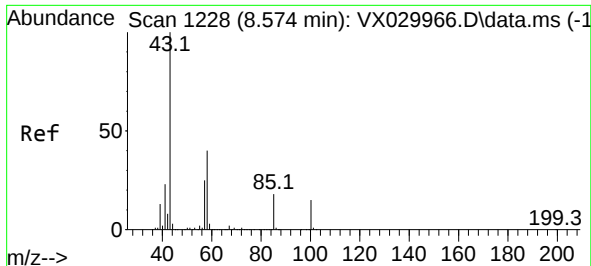
Tgt Ion: 88 Resp: 4944
Ion Ratio Lower Upper
88 100
43 20.0 25.8 38.6#
58 76.4 54.8 82.2



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX030061.D
Acq: 14 Jul 2022 15:09

Tgt Ion: 117 Resp: 137210
Ion Ratio Lower Upper
117 100
82 54.4 42.3 63.5
119 31.9 26.2 39.2





#58

4-Methyl-2-Pentanone

Concen: 11.376 ug/l

RT: 8.574 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX030061.D

Acq: 14 Jul 2022 15:09

Instrument :

MSVOA_X

ClientSampleId :

220713036-03-VOA

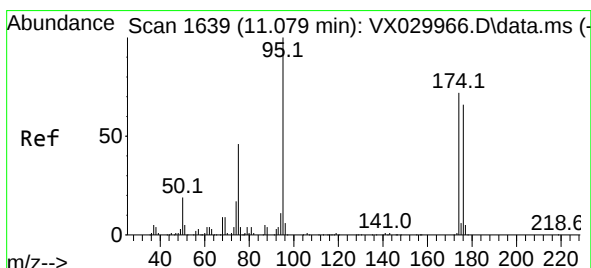
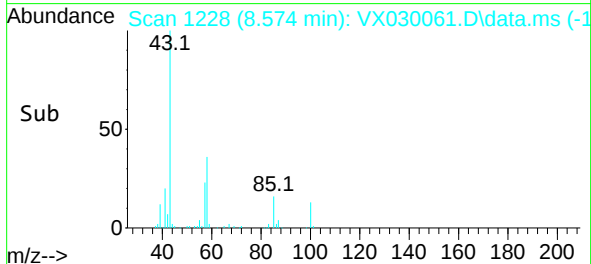
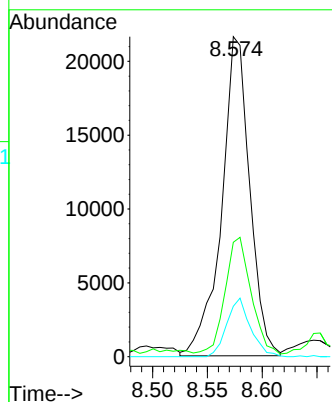
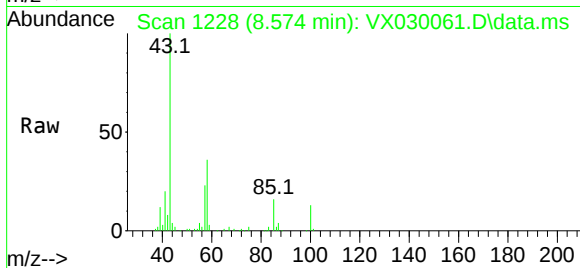
Tgt Ion: 43 Resp: 38554

Ion Ratio Lower Upper

43 100

58 35.5 31.8 47.6

85 15.5 15.8 23.6#



#60

4-Bromofluorobenzene

Concen: 28.760 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. 0.006 min

Lab File: VX030061.D

Acq: 14 Jul 2022 15:09

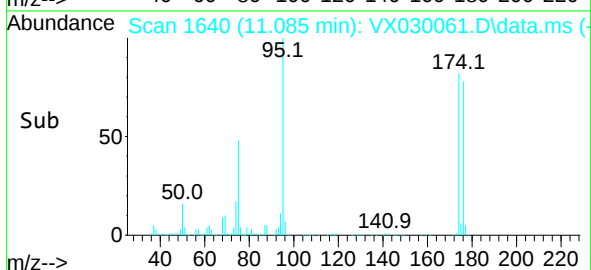
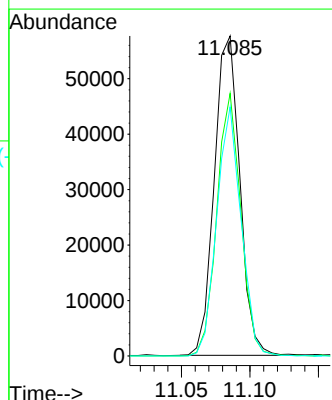
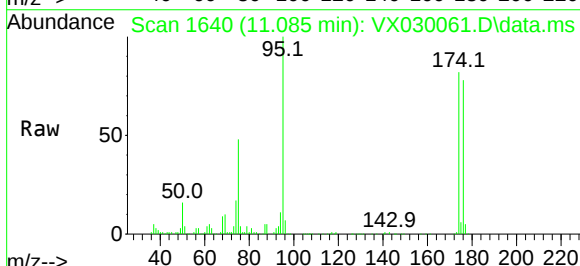
Tgt Ion: 95 Resp: 74368

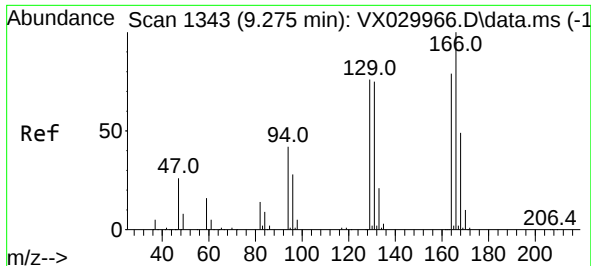
Ion Ratio Lower Upper

95 100

174 77.4 65.4 98.2

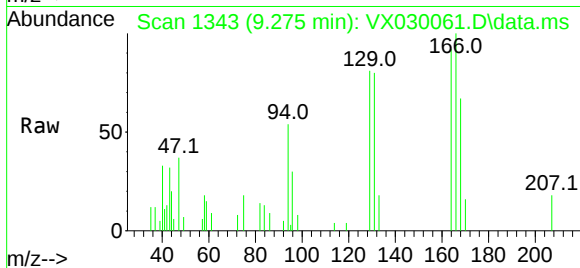
176 74.6 63.4 95.0





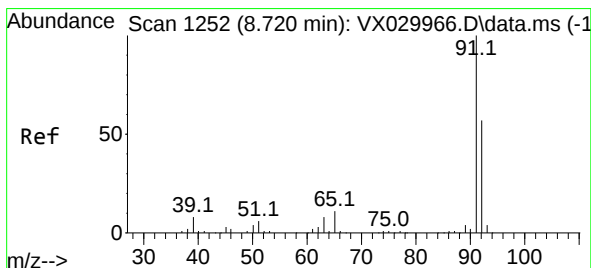
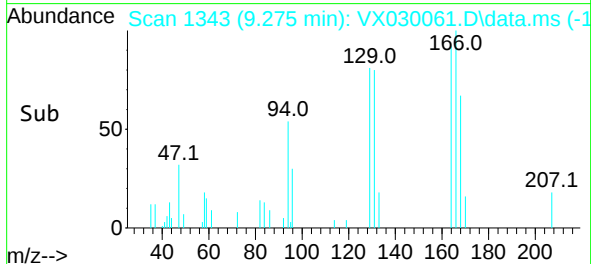
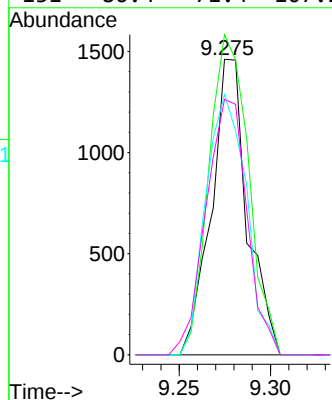
#61
Tetrachloroethene
Concen: 0.975 ug/l
RT: 9.275 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX030061.D
Acq: 14 Jul 2022 15:09

Instrument :
MSVOA_X
ClientSampleId :
220713036-03-VOA



Tgt Ion:164 Resp: 2008

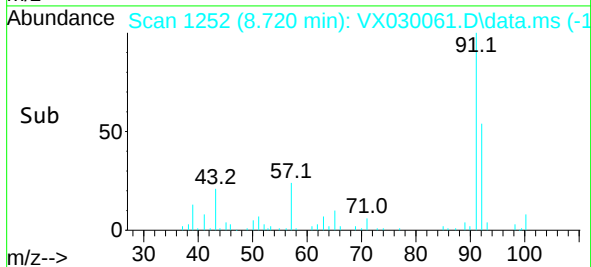
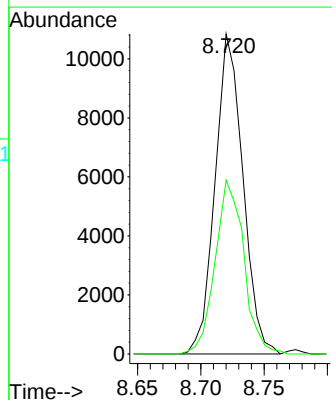
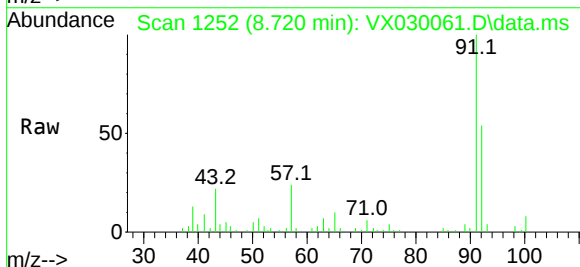
Ion	Ratio	Lower	Upper
164	100		
166	108.4	105.0	157.6
129	88.1	78.5	117.7
131	86.4	71.4	107.2

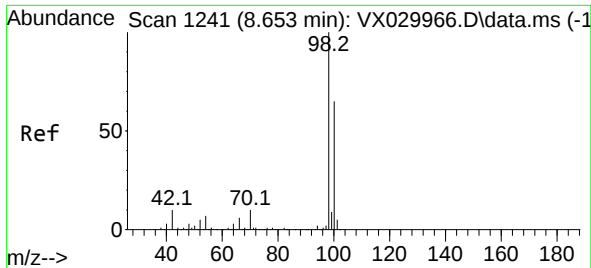


#62
Toluene
Concen: 1.816 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX030061.D
Acq: 14 Jul 2022 15:09

Tgt Ion: 91 Resp: 16574

Ion	Ratio	Lower	Upper
91	100		
92	55.9	48.1	72.1

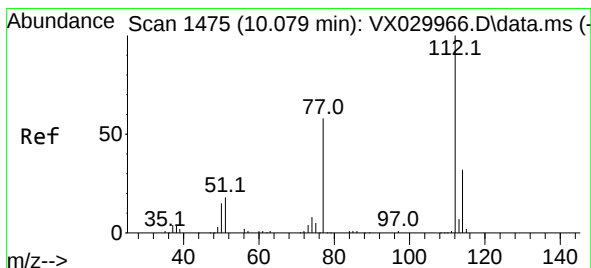
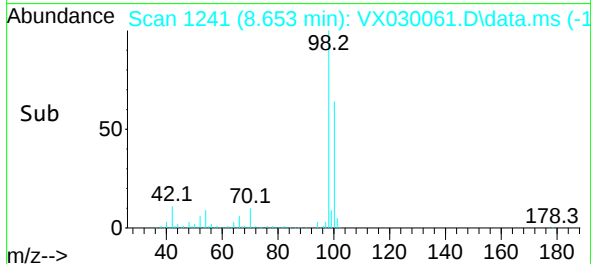
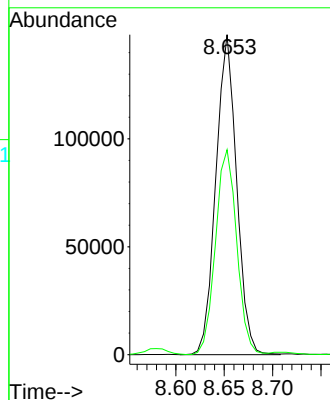
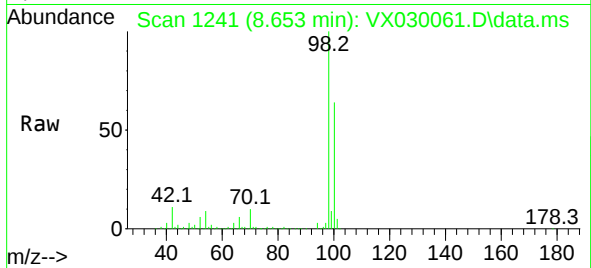




#63
Toluene-d8
Concen: 29.730 ug/l
RT: 8.653 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX030061.D
Acq: 14 Jul 2022 15:09

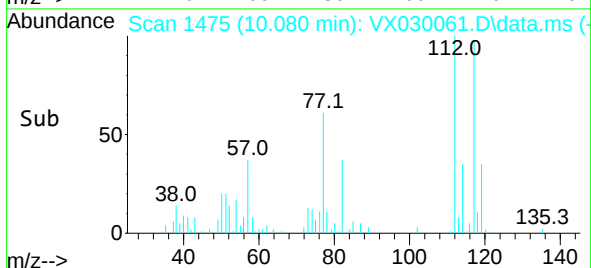
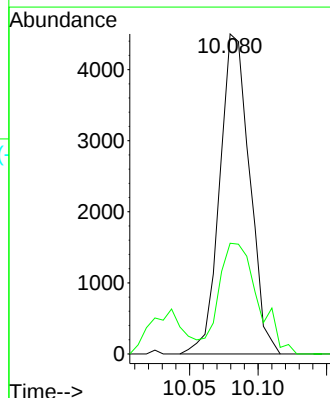
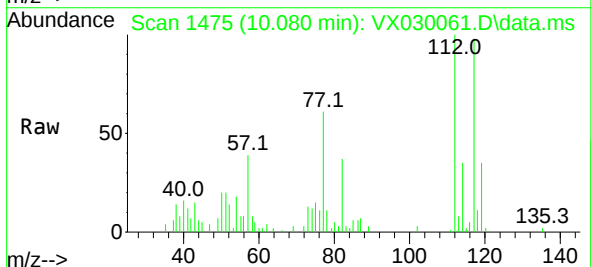
Instrument :
MSVOA_X
ClientSampleId :
220713036-03-VOA

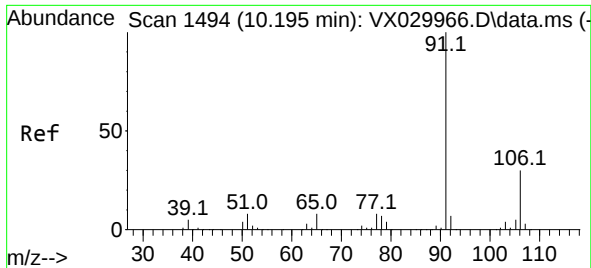
Tgt Ion: 98 Resp: 221197
Ion Ratio Lower Upper
98 100
100 65.7 51.4 77.2



#64
Chlorobenzene
Concen: 1.251 ug/l
RT: 10.080 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX030061.D
Acq: 14 Jul 2022 15:09

Tgt Ion: 112 Resp: 6819
Ion Ratio Lower Upper
112 100
114 32.5 26.0 39.0

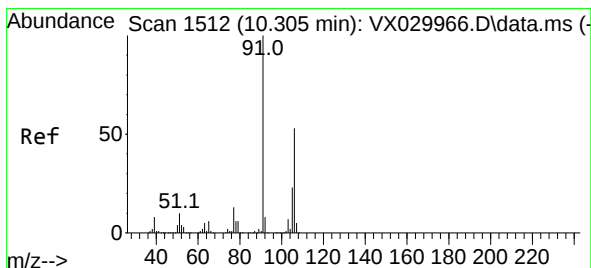
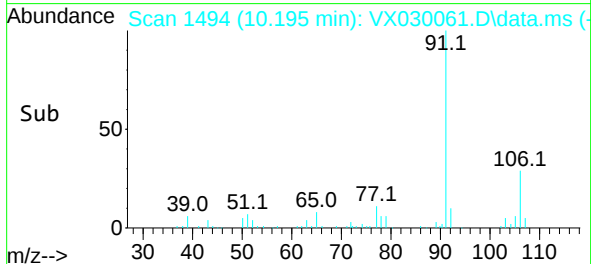
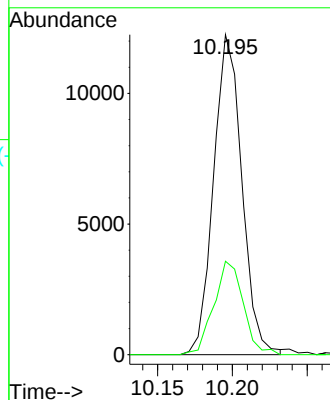
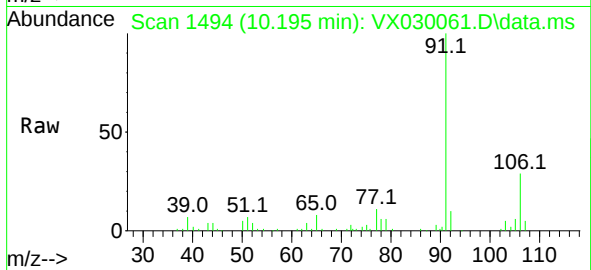




#66
Ethyl Benzene
Concen: 1.661 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX030061.D
Acq: 14 Jul 2022 15:09

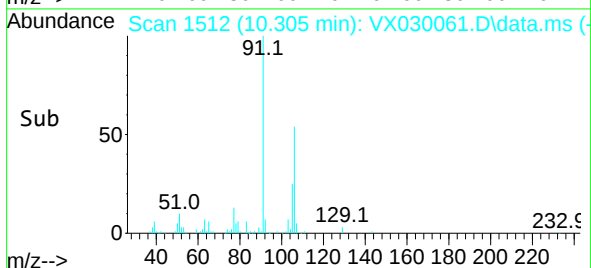
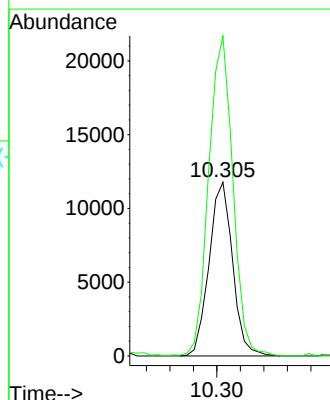
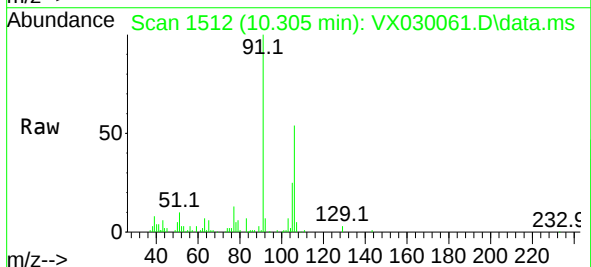
Instrument :
MSVOA_X
ClientSampleId :
220713036-03-VOA

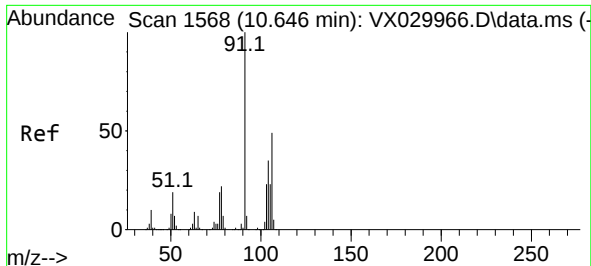
Tgt Ion: 91 Resp: 16107
Ion Ratio Lower Upper
91 100
106 29.2 25.8 38.8



#67
m/p-Xylenes
Concen: 4.349 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.000 min
Lab File: VX030061.D
Acq: 14 Jul 2022 15:09

Tgt Ion: 106 Resp: 16368
Ion Ratio Lower Upper
106 100
91 189.1 159.5 239.3

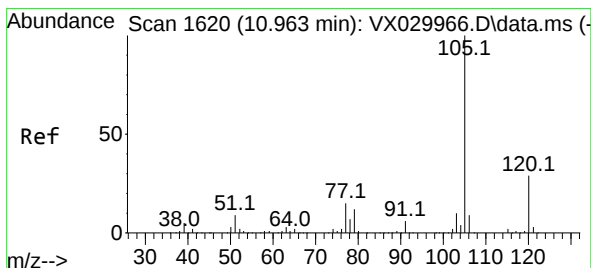
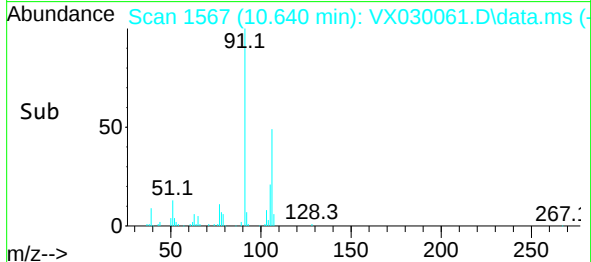
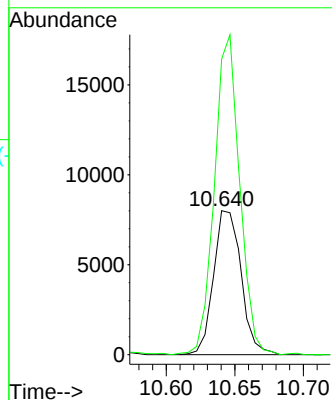
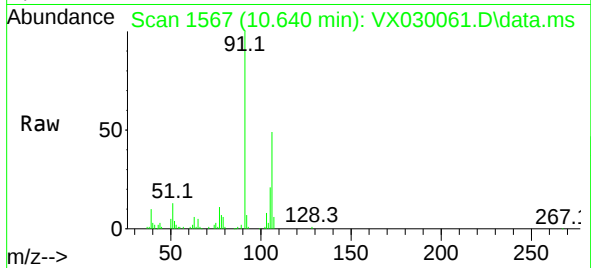




#68
o-Xylene
Concen: 2.983 ug/l
RT: 10.640 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX030061.D
Acq: 14 Jul 2022 15:09

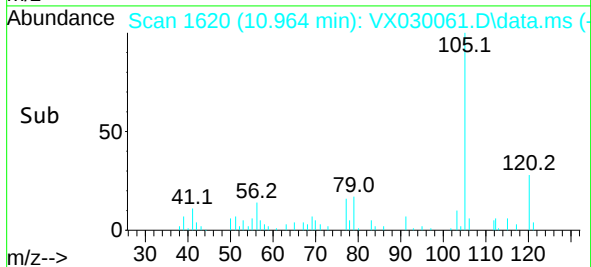
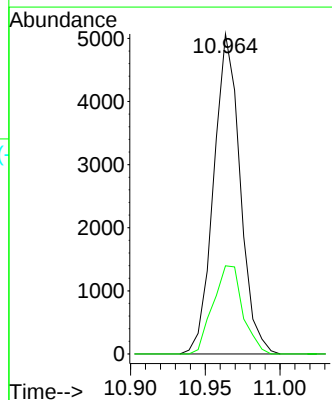
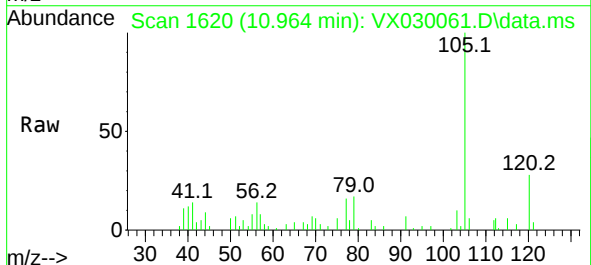
Instrument :
MSVOA_X
ClientSampleId :
220713036-03-VOA

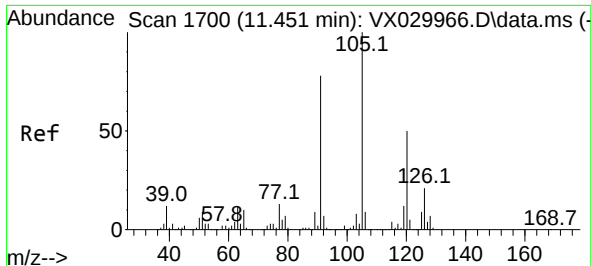
Tgt Ion:106 Resp: 11180
Ion Ratio Lower Upper
106 100
91 203.9 105.4 316.2



#70
Isopropylbenzene
Concen: 0.662 ug/l
RT: 10.964 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX030061.D
Acq: 14 Jul 2022 15:09

Tgt Ion:105 Resp: 6247
Ion Ratio Lower Upper
105 100
120 30.8 18.8 34.8

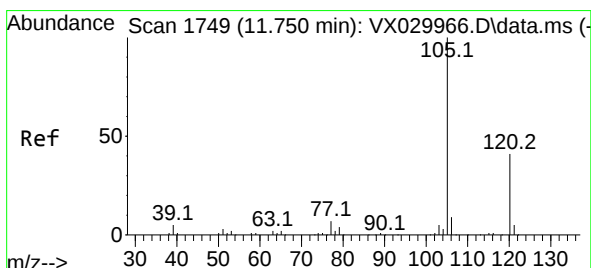
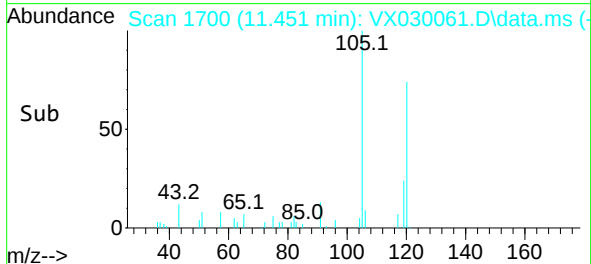
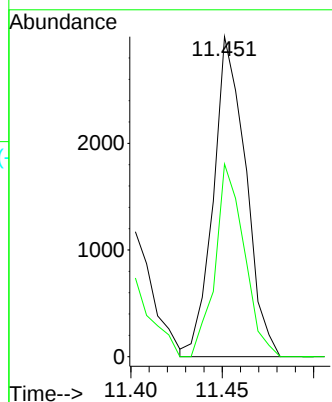
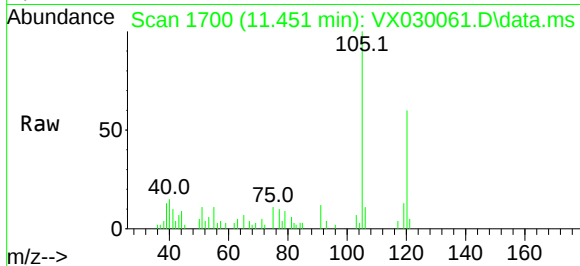




#76
 1,3,5-Trimethylbenzene
 Concen: 0.466 ug/l
 RT: 11.451 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX030061.D
 Acq: 14 Jul 2022 15:09

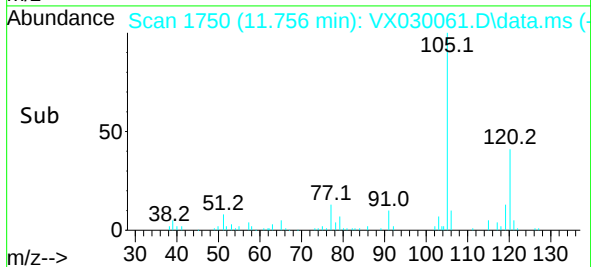
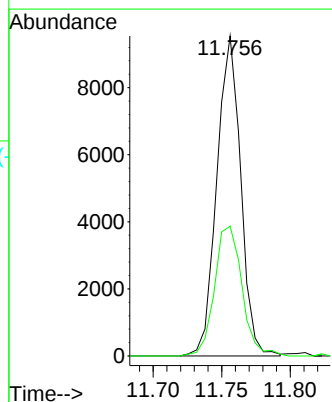
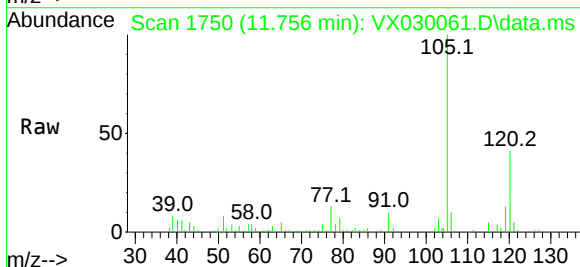
Instrument :
 MSVOA_X
 ClientSampleId :
 220713036-03-VOA

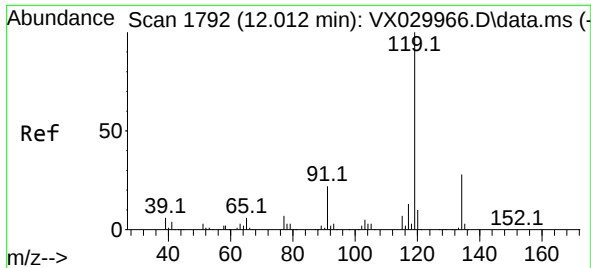
Tgt Ion:105 Resp: 3690
 Ion Ratio Lower Upper
 105 100
 120 54.0 0.0 98.0



#80
 1,2,4-Trimethylbenzene
 Concen: 1.418 ug/l
 RT: 11.756 min Scan# 1750
 Delta R.T. 0.006 min
 Lab File: VX030061.D
 Acq: 14 Jul 2022 15:09

Tgt Ion:105 Resp: 11547
 Ion Ratio Lower Upper
 105 100
 120 46.6 0.0 89.6

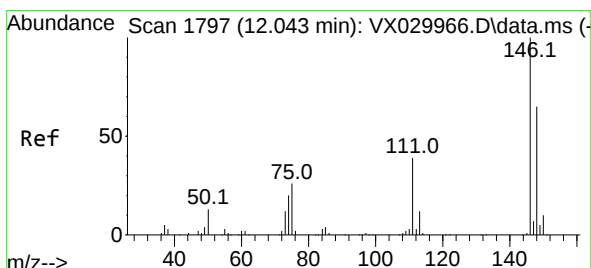
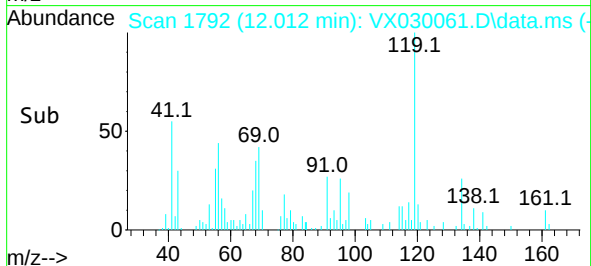
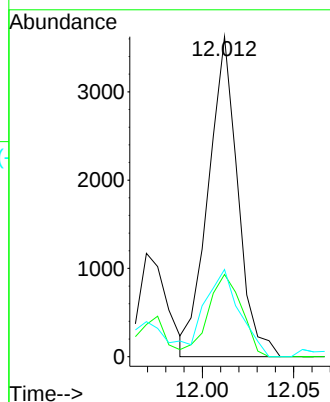
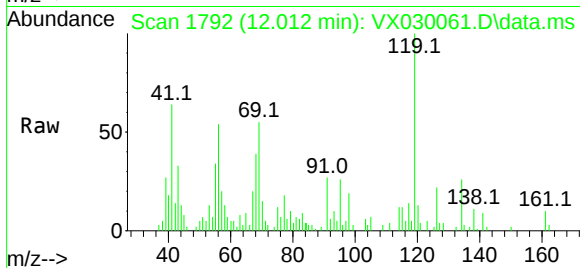




#82
 p-Isopropyltoluene
 Concen: 0.485 ug/l
 RT: 12.012 min Scan# 1792
 Delta R.T. 0.000 min
 Lab File: VX030061.D
 Acq: 14 Jul 2022 15:09

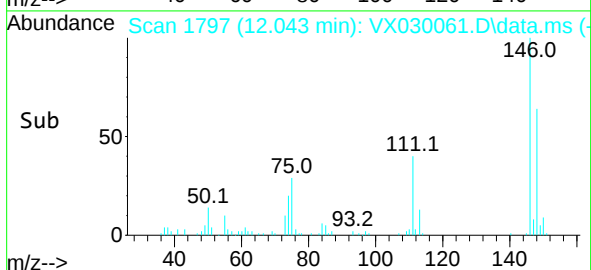
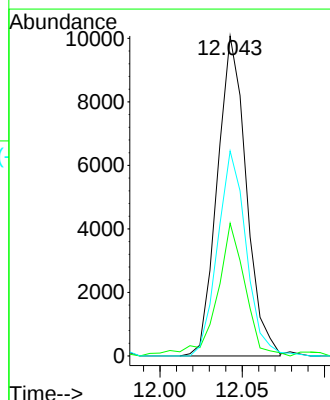
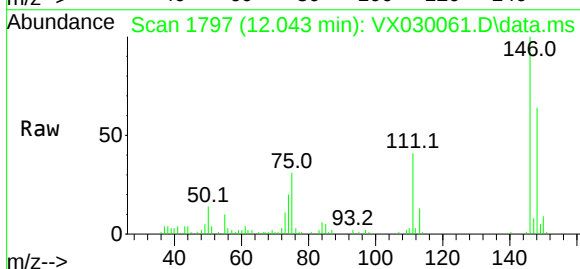
Instrument :
 MSVOA_X
 ClientSampleId :
 220713036-03-VOA

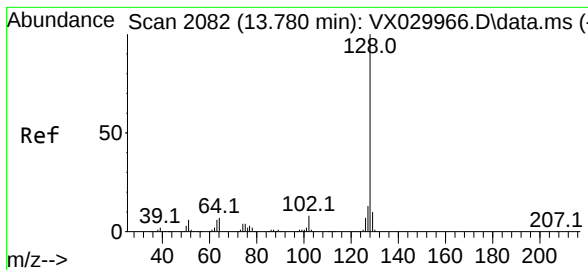
Tgt Ion:	119	Resp:	4073
Ion	Ratio	Lower	Upper
119	100		
134	29.3	0.0	52.4
91	31.1	0.0	47.2



#84
 1,4-Dichlorobenzene
 Concen: 2.774 ug/l
 RT: 12.043 min Scan# 1797
 Delta R.T. 0.000 min
 Lab File: VX030061.D
 Acq: 14 Jul 2022 15:09

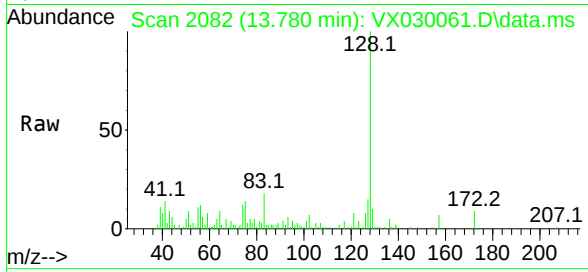
Tgt Ion:	146	Resp:	12317
Ion	Ratio	Lower	Upper
146	100		
111	39.8	19.2	57.6
148	63.6	32.3	96.8





#91
 Naphthalene
 Concen: 1.113 ug/l
 RT: 13.780 min Scan# 2082
 Delta R.T. 0.000 min
 Lab File: VX030061.D
 Acq: 14 Jul 2022 15:09

Instrument :
 MSVOA_X
 ClientSampleId :
 220713036-03-VOA



Tgt Ion:	128	Resp:	11870
Ion	Ratio	Lower	Upper
128	100		
127	14.7	10.0	15.0
129	10.5	8.8	13.2

